

ABSTRACT OF THE DISCLOSURE

Remote communication devices, radio frequency identification devices, wireless communication systems, wireless communication methods, radio frequency identification device communication methods, and methods of forming a remote intelligent communication device are provided. According to one aspect, a remote intelligent communication device includes communication circuitry configured to at least one of receive communication signals and generate communication signals; and an antenna coupled with the communication circuitry and substantially tuned to a plurality of frequencies, the antenna being configured to communicate wireless signals corresponding to the communication signals including at least one of receiving wireless signals and outputting wireless signals. Another aspect includes a wireless communication method including providing a remote intelligent communication device having an antenna substantially tuned to a plurality of frequencies; and communicating wireless signals using the antenna including at least one of receiving wireless signals at one of the frequencies and outputting wireless signals at one of the frequencies.